

Patent Number(s): JP53105591-A; JP80030730-B

Title: Polyester prepn. from bis-(beta-hydroxyethyl)-terephthalate - by polycondensing in presence of antimony cpd., organo-tin cpd. and antioxidant, giving transparent prod. for film and fibre mfr.

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Derwent Primary Accession Number: 1978-75507A [42]

Patents Cited by Inventor: 0 **Citing Patents:** 0 **Articles Cited by Inventor:** 0

Patents Cited by Examiner: 0 **Articles Cited by Examiner:** 0

Abstract:

Prepn. of polyester comprises polycondensing bis-(beta-hydroxyethyl)terephthalate in the presence of (a) an Sb cpd. (b) an ethylene glycol-soluble organic Sn cpd. in an amt. of 0.01-0.3 mol. (calculated as Sn atom) per mol. of the Sb atom and (c) >0.01 mol. of an antioxidant per mol. of Sn atom.

Pref. (b) is a tetravalent organic Sn cpd. organic Sn oxide (e.g. dibutyl tin oxide) alkoxide (e.g. dibutyltin methoxide) hydroxide (e.g. triphenyltin hydroxide), glycoxide, phenoxide (e.g. dibutyltin diphenoxide) organic Sn inorganic acid salt (e.g. trimethyltin nitrate) organic Sn carboxylic acid ester (e.g. dibutyltin maleate) or tetraalkyltin (e.g. tetrabutyltin). Pref. (c) is a phenol series (e.g. butyloxylanisole)amine (e.g. phenyl-alpha-naphthylamine) or quinone series (e.g. hydroquinone) antioxidant.

Addn. of (b) and (c) prevents the polyester from becoming reddish and imparts transparency. The polyester are useful as raw materials for fibres, films, etc.

International Patent Classification: C08G-063/34

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds); F01 (Threads and fibres, natural or artificial; spinning)

Derwent Manual Code(s): A02-A07; A05-E04A; A08-A06; F01-D04

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